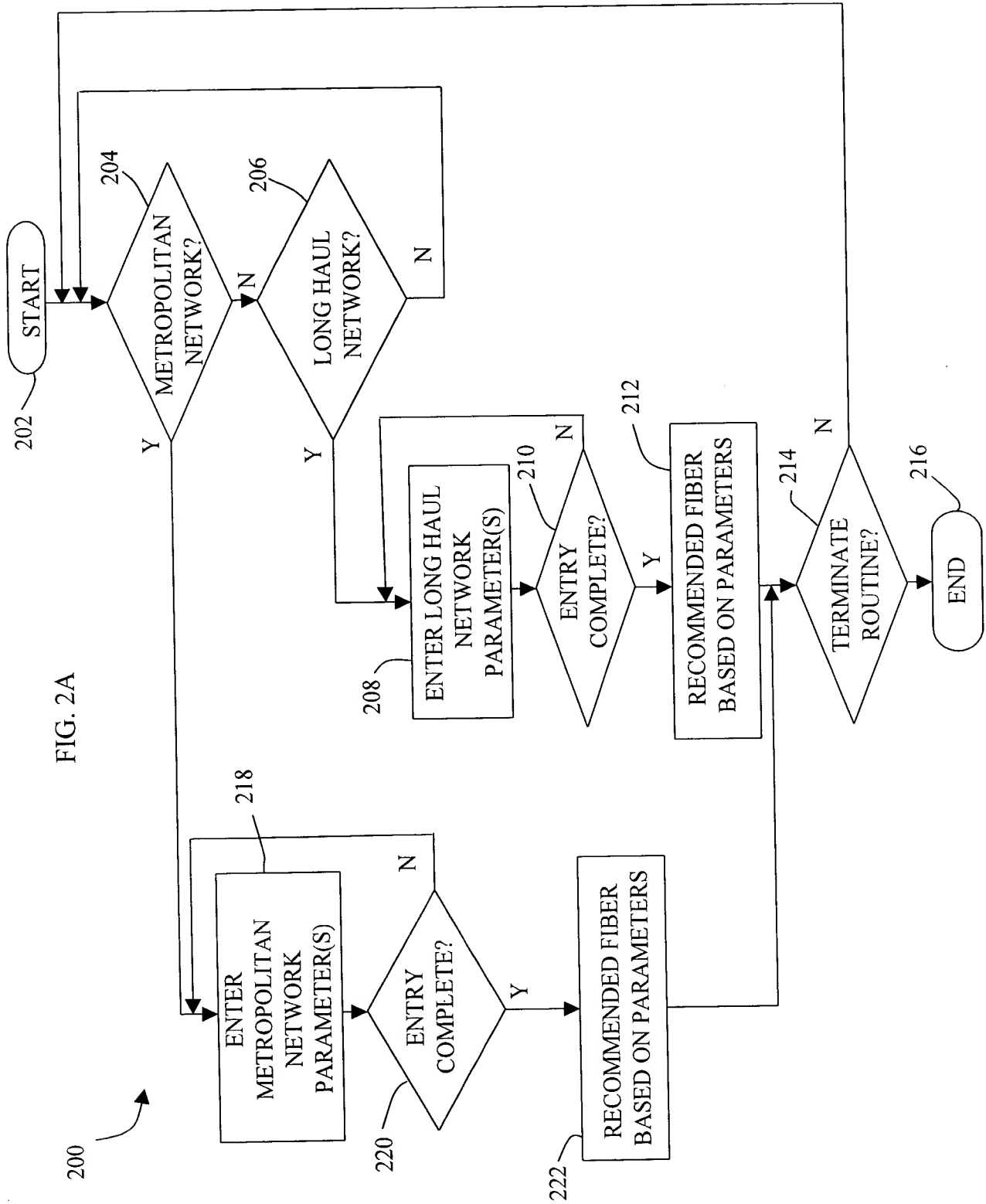


FIG. 1



222A

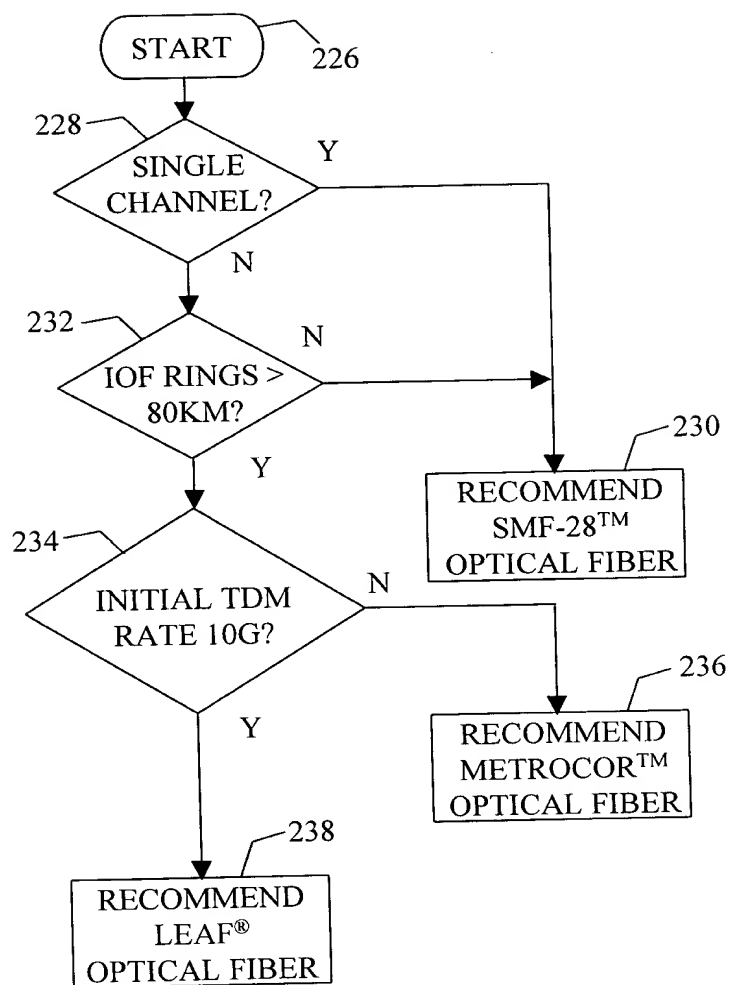


FIG. 2B

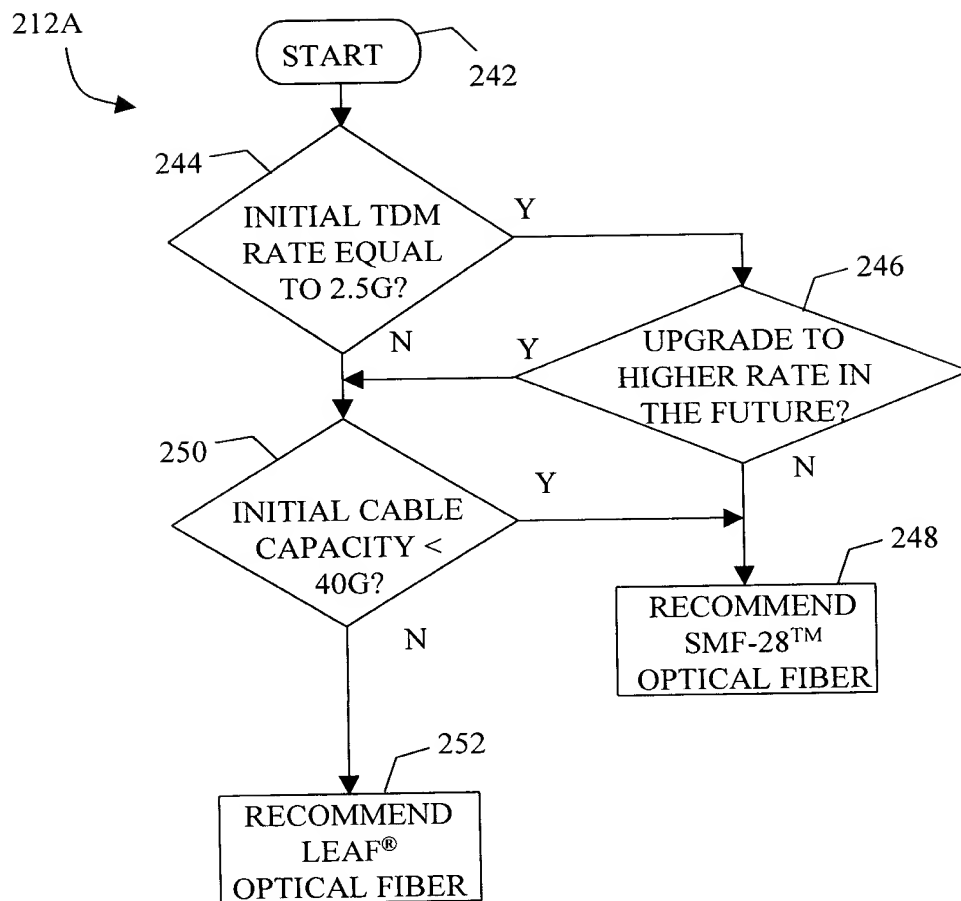


FIG. 2C

PRODUCT DESIGN TOOLS

Fiber Selection Guide
Dispersion Calculators
Spectral Attenuation Calculators
Splicing performance Information

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FIBER SELECTION GUIDE

Enter the essential parameters of your network into the fiber selection tool and it will return a recommendation of the best fiber for your network based on our network economic and system performance analysis.

Choose the type of network of interest to you.

Network Type	Example	Products for Consideration
• <u>Metropolitan</u>	Regional rings down to and including business access rings. Usually 40-400 km size rings.	LEAF®, MetroCor™, SMF-28™
• <u>Long Haul</u>	Long distance, high data rates. Nationwide backbone. Usually 350 + km lengths	LEAF®, SMF-28™

FIG. 3

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METROPOLITAN NETWORK TYPE

Please input your network parameters
Choose the closest that apply.

Interoffice Ring (IOF) circumference

	0 - 80 km	0 - 50 mi	Standard Equivalent
Metric	▼		

Typical N. American value is 120 km. For quick calculation, multiply cross-town distance by 3 (or pi).

Number of Office Business Rings

0	
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Business access rings are the smaller sub-rings that come off the main IOF ring to serve main business districts.

Business Access Ring Circumference

	0 - 20 km	0 - 10 mi	Standard Equivalent
Metric	▼		

Typical N. American value is 20 km. For quick calculation, multiply area's end to end distance by 3 (or pi).

Channel Plan

WDM	▼
-----	---

Single Channel or Wavelength Division Multiplexing

 Previous
  Next

FIG. 4A

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Dispersion Calculators
Spectral Attenuation Calculators
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Choose an initial TDM rate

2.5 Gbps ▼

Typical rate for metro DWDM applications is 2.5 Gbps.

Choose a future TDM upgrade rate, if applicable

No upgrade ▼

Choose an initial "lit" channel count

4 ▼

Typical value ranges from 4-32.

Choose a maximum channel count per fiber pair

16 ▼

Typical value is 32 or 40.

Choose an estimated fiber count

96 ▼

Fiber counts are market dependent; values typically range from 144 - 864



FIG. 4B

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Long Haul Network Type

Please select the parameters of your network.
Choose the closet that apply.

Average unregenerated link length

Standard Equivalent

Conservative equipment providers suggest 450 km link. Technology exists to extend this length.

Number of Links

Typical range from 1-20.

Based on your inputs we have estimated a route distance of 4000 km (2500 miles).

TDM rate

Currently most long distance carriers deploy 10 Gbps systems.

Choose a future TDM rate, if applicable.

Initial Channel Count

Typical values range from 1 - 10.

Initial Cable Capacity

Maximum Channel Count (per fiber)

Maximum values range from 32 -160.

Numbers of fibers in cable

If number values by span, use average

Typical long haul fiber counts range from 48-144.

Maximum Cable Capacity

One -way throughput. Assumes 1:1 protection and unidirectional traffic

Previous

Next

FIG. 5